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Yonkers, NY 10701 (US).

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(74) Agents: TANG, Henry et al.; Baker & Botts, LLP, 30
Rockefeller Plaza, New York, NY 10112-4498 (US).

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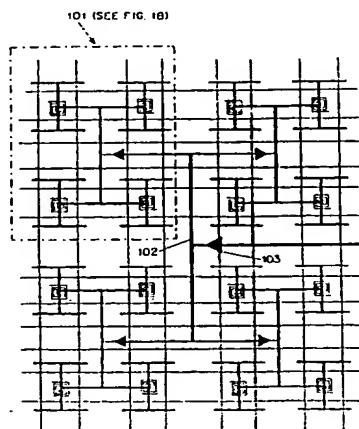
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(71) Applicant (*for all designated States except US*): THE
TRUSTEES OF COLUMBIA UNIVERSITY IN THE
CITY OF NEW YORK [US/US]; 116th Street and
Broadway, New York, NY 10027 (US).

(72) Inventors; and

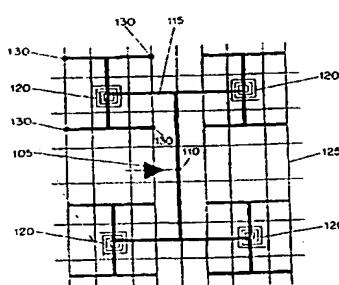
(75) Inventors/Applicants (*for US only*): SHEPARD, Kenneth [US/US]; 158 Evan Drive, Ossining, NY 10562 (US).(84) Designated States (*regional*): ARIPO patent (GH, GM,
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(54) Title: RESONANT CLOCK DISTRIBUTION FOR VERY LARGE SCALE INTEGRATED CIRCUITS



A

(57) **Abstract:** A circuit for distributing a clock signal in an integrated circuit includes a capacitive clock distribution circuit (102) having at least conductor (115) therein. At least one inductor is formed in a metal layer of the integrated circuit and is coupled to the clock distribution circuit. The inductor, generally in the form of a number of spiral inductors (120) distributed throughout the integrated circuit, provides an inductance value selected to resonate with the capacitive clock distribution circuit at resonance, power dissipation is reduced while skew and jitter performance can be improved.



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